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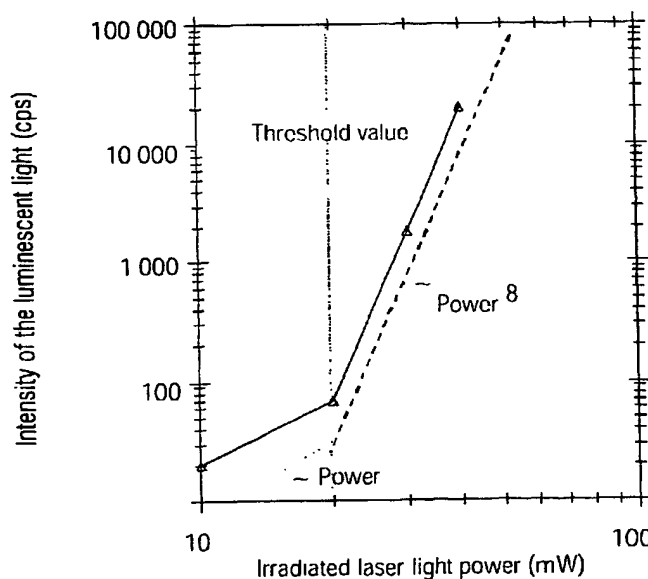
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(54) Title: OPTICAL SIGNAL PROCESSING DEVICE AND NON-LINEAR OPTICAL COMPONENT



(57) Abstract: An optical signal processing device equipped with a source of electromagnetic radiation of variable intensity, a non-linear optical component, which comprises at least one photoluminescent carbon nanotube, and with a means of detecting electromagnetic radiation utilizes the non-linearity of the photoluminescence of carbon nanotubes for optical signal processing. The invention also relates to a non-linear optical component.

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